Making large foundation blocks in construction yards under winter conditions. Biul.stroi.tekh. 12 no.9:6-7 (MIRA 12:1)

1. Trest Chelyahmetallurgetroy. (Concrete blocks—Cold weather conditions)

ZORIN, L.V.; GROSHENKOVA, N.G. Laws of the formation of placers. Izv. Vses. geog. ob-va 94 no.1:79-83 Ja-F '62. (MIRA 15 (MIRA 1513) (Siberia, Eastern-Ore deposits)

DIRIKHS, Al'fred.[Dierichs,Alfred], prof. doktor.; KUBICHKA. Rudol'f,
[Kubicks, Rudolf], insh.; DAVID,Z.[translator],; OROSHEK, F.,.
[translator],; FEROSKIN, Sargey Dmitriyevich, Fand.tokhn. nsuk, red.;
[LOZBYAKOVA, Te.S., insh., ved. red.; SOLOHONIDICH, S.M., tekhn. red.

[Phenols and organic bases from coal] Fenoly i canovenits is uglei.
[Mostva, Gos. msuchno-tekhn. ind-vo neft. i gorno-toplivnoi lit-ry,
1958. 468 p. (Phenols)

(Goal-tar products)

GROSHEK, K.S., inzh.

Investigating a fan model with adjustable blades of the wheel.

Izv.vys.ucheb.sav.; energ. 2 no.4:124-130 Ap 159.

(MIRA 12:9)

1. Yuzhnoye otdeleniye "Orgres". (Fans, Electric-Hodels)

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051702

GROSHENKO, V., inzhener-polkovnik

Means of special treatment. Texh. 1 vooruzh. no.4:24-25 Ap 164.

(MIRA 17:9)

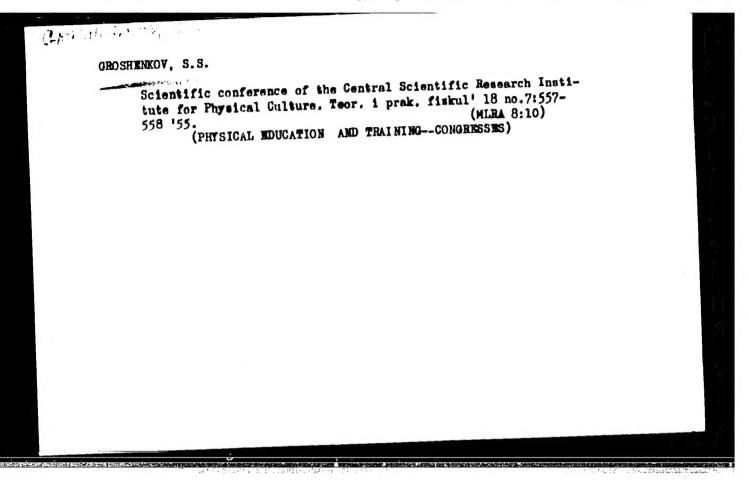
LIMANOV, A., insh.; BALAKIREV, M.; OLEYNIK, K., insh.; LEONT'YEV, V.; GROSHENKOV, M.

These are your rights, comrades. Isobr.i rats. no.10:31
0 '59. (MIRA 13:2)

1. TSentral naya laboratoriya "Glavnospromstroynaterialov,"

Moskva (for Limanov). 2. Pakovoditel' konstruktorskoy gruppy
proyektno-smetnogo byuro g.Zaporosh'ye (for Oleynik). 4. Predsedatel' savodskogo soveta Vsesoyusnogo obshchestva izobretateley
i ratsionalizatorov shinnogo savoda, g.Yaroslavl' (for Leont'yev).
5. Starshiy inshener Byuro ratsionalizatorov i izobretateley
shinnogo savoda, g.Yaroslavl' (for Groshenkov).

(Technological innovations)



"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051702

Quaternary sedimentation in the Zeyn Valley. Sov. geol. 3 no.2:39-47 F '60.

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova Geograficheskiy fakul'tet.

(Zeyn Valley-Sediments (Geology))

G-ROSHEV, A.A

3(4)

PHASE I BOOK EXPLOTRATION

907/2879

- Vendrov, Semen Leonidovich, Aleksandr Afanas yevich Groshev, Nikolay Mikhaylovich Isakov, Leonid Aleksandrovich Sergeyev, Iosif Mikhaylovich Shepshelevich, and Viktor Aleksandrovich Velichko
- Sovremennaya tekhnika gidrograficheskikh izyskaniy (Modern Techniques in Hydrographic Surveying) Leningrad, Izd-vo "Rechnoy transport," Leningr. otd-niye, 1957. 170 p. 1,500 copies printed.
- Ed. (Title page): Ye. V. Bliznyak, Doctor of Technical Sciences, Professor; Reviewer: A. I. Gruzinov; Ed. (Inside book): D. M. Kudritskiy; Tech. Ed.; K.M. Volchok.
- PURPOSE: This book is intended for engineering and technical personnel engaged in hydrographic survey work. It may also serve as a textbook for students of hydrographic surveying.
- COVERAGE: This book covers the basic principles and techniques of surveying inland waterways. It describes the role played by ultrasonics, radio, lighting

Card 1/4

Modern Techniques in Hydrographic (Cont.) engineering, and aerial photography in hydrographic surveying. Variational devices and range finders are described. No personalities amentioned. There are 13 Soviet references.	ous tre
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Ch. I. Present Position on Introducing New Techniques in Hydrographic Surveys 1. General remarks 2. Brief information on the use of river sounding devices (echo sounders) 3. Radiogeodetic and optical range finding measurements in the USSR and their development	3 3 7 9
Ch. II. Sounding Device and Its Use in River Surveys 4. Description of the REL-lm - type river echo sounding device 5. Carrying out surveying work 6. The FEL-2 echo sounding device	12 12 23 33
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Card 4/4	12-29-59
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AUTHOR: Groshev, A.A. SOV/109-4-6-18/27

TITLE: Integrating Amplifiers Employing Transistors (Integriruyushchiye usiliteli na poluprovodnikovykh triodakh)

PERIODICAL: Radiotekhnika i elektronika, 1959, Vol 4, Nr 6, pp 1038 - 1045 (USSR)

ABSTRACT: A single-stage transistor amplifier is considered. The transistor is represented by an equivalent active quadrupole Y_0 (Figure 1). The feedback path is represented by a passive quadrupole Y_2 . The amplifier has an input admittance $y_1 = 1/z_1$, where z_1 takes into account also the internal impedance of the generator; y_H is the load admittance. The matrix of the equivalent quadrupole Y^1 , representing the parallel combination of the quadrupoles Y_0 and Y_2 , is given by Eq (1).

The transfer coefficient of the amplifier is expressed Cardl/6 by Eq (2) or by Eq (3), where y_{BX} represents the input

SOV/109-4-6-18/27 Integrating Amplifiers Employing Transistors

admittance of the transistor, k is the voltage amplification of the transistor without feedback and y_{aBX}

is the equivalent input admittance of the amplifier. If the admittance parameters are replaced by the corresponding impedance parameters, the transfer function of the system can be expressed by:

$$K = \frac{\frac{z_{H}}{z_{2}}}{\frac{z_{1}}{z_{3}BX} + \frac{z_{1}}{z_{2}}(1 - k) + \frac{z_{1}}{z_{2}}\left(\frac{z_{22}}{\Delta} + \frac{1}{z_{1}}\right)z_{H}}$$
(4)

or by Eq (5), where η is the attenuation coefficient, Δ is the determinant of the transistor parameters and z, $\exists x$ is the equivalent input impedance of the integrator.

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SOV/10:-4-6-18/27

Integrating Amplifiers Employing Transistors

For an integrating amplifier, the impedances can be expressed by the equations defined in the first line on p 1040. The transfer coefficient can now be expressed by Eq (6), where the symbols T_1 and T are defined by Eqs (7). Eq (6) can also be expressed as Eq (11). Since k > 1, Eq (11) can also be written as Eq (12). Now the response of the system to a unit step can be represented by Eq (13). The solution of this is in the form of Eq (14). The relative integration error can therefore be defined by:

$$\varepsilon = \frac{U_2(t) - U_2(t)_{MA}}{U_2(t)_{MA}} \simeq \frac{t}{R_{jBX} Ck}$$
(15)

where:

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Integrating Amplifiers Employing Transistors

$$U_2(t)_{N,\lambda} = -\frac{k\eta t}{R_{\partial BX}C(k-1)}$$

From the above formulae, it can be seen that a singlestage integrator cannot yield very high time constants.

The necessary increase in the time constant can be
achieved by employing multi-stage transistor integrators.

This type of circuit is illustrated in Figure 2, while
its equivalent representation is given in Figure 3. The
transfer function of the integrator of Figure 3 can be
expressed by Eq (22). This is very similar to the transfer
function of single-stage integrator, as may be seen by
comparing Eqs (8) and (24). The main disadvantage of the
circuit of Figure 2 is its low input impedance. This can
be increased by employing an emitter-follower input stage.
Alternatively, an input stage may be formed by connecting
two transistors in a circuit of the type illustrated in

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Integrating Amplifiers Employing Transistors

Figure 4a; the high input impedance can also be secured by employing a circuit of the type illustrated in Figure 46. It is shown that the input impedance of an integrator employing an emitter input stage is given by Eq (25). The input impedance of an integrator with the circuit of Figure 4a is given by Eq (26). The input impedance of the circuit of Figure 46 is expressed by Eq (27). The theory was used to design a four-stage integrator. A detailed circuit diagram of this is shown in Figure 5. It was found that the measured results obtained with the amplifier, at a temperature of 20 ± 5°C, were in good agreement with the theoretically predicted values. The author expresses his gratitude to the Candidate of Technical Sciences S.Ya. Shats for reading the manuscript and for valuable advice.

Card 5/6

SOV/109-4-6-18/27

Integrating Amplifiers Employing Transistors

There are 5 figures and 5 references, of which 4 are Soviet and 1 English; 1 Soviet reference is translated from English.

SUBMITTED: February 1, 1958

Card 6/6

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3/106/61/000/012/004/010 A055/A127

9,2520 (1040,1139,1154)

AUTHOR:

Groshev, A. A.

TITLE:

Transistorized a-c amplifiers with direct coupling

PERIODICAL: Elektrosvyaz, no. 12, 1961, 29 - 35

TEXT: The author examines the stability of the static operation conditions of transistorized a-c amplifiers with direct coupling, taking into account the effect of the zero collector-current I_{k0} , of current amplification factor of and of base-to-emitter voltage U_{be} . The analysis is first applied to the case of a two-stage amplifier. The expression giving the collector current of the second stage is:

 $I_{k2} = \frac{E(S_2-1)}{R_{load1}} - \frac{U_{be2}(S_2-1)}{R_{load1}} - I_{k1}(S_2-1) + I_{k02}S_2,$ (2)

where

$$\mathbf{g}_2 = \frac{\mathbf{g}_{1\text{oad}1} + \mathbf{g}_2}{\mathbf{g}_2 + \mathbf{g}_{1\text{oad}1}(1-\alpha_2)} = \frac{\partial \mathbf{I}_{\mathbf{k}2}}{\partial \mathbf{I}_{\mathbf{k}02}}$$

is the stability coefficient determining the degree of influence of I_{k0} on the col-

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Transistorized a-c amplifiers with direct compling

3/106/61/000/012/004/010 A055/A127

lector current. The expression for the collector current of the first stage is:

$$I_{k1} = \frac{E}{R_c} (S_1 - 1) - \frac{U_{hel}}{R_c} (S_1 - 1) + I_{kOl} S_1,$$
 (4)

where

$$B_1 = (R_c + R_1)/[R_1 + R_c(1 - \omega_1)].$$

Substitution of (4) in (2) yields another expression of I_{k2} :

$$I_{k2} = \frac{E}{R_{load1}} (S_2^{-1}) - \frac{U_{be2}}{R_{load1}} (S_2^{-1}) - \frac{E}{R_c} (S_1^{-1}) (S_2^{-1}) + \frac{U_{be1}}{R_c} (S_1^{-1}) (S_2^{-1}) - \frac{U_{be1}}{R_c} (S_1^{-1}) (S_2^{-1}) + \frac{U_{be1}}{R_c} (S_1^{-1}) (S_2^{-1}) - \frac{U_{be1}}{R_c} (S_1^{-1}) (S_2^{-1}) (S_2^{-1}) + \frac{U_{be1}}{R_c} (S_1^{-1}) (S_2^{-1}) - \frac{U_{be1}}{R_c} (S_1^{-1}) (S_2^{-1}) (S_2^{-1}) + \frac{U_{be1}}{R_c} (S_1^{-1}) (S_2^{-1}) - \frac{U_{be1}}{R_c} (S_1^{-1}) (S_2^{-1}) (S_2^{-1}) + \frac{U_{be1}}{R_c} (S_1^{-1}) (S_2^{-1}) - \frac{U_{be1}}{R_c} (S_1^{-1}) (S_2^{-1}) (S_2^{-1}) + \frac{U_{be1}}{R_c} (S_1^{-1}) (S_2^{-1}) (S_2^{-1}) + \frac{U_{be1}}{R_c} (S_1^{-1}) (S_2^{-1}) + \frac{U_{be1}}{R_c} (S_1^{-1}) (S_2^{-1}) (S_2^{-1}) + \frac{U_{be1}}{R_c} (S_1^{-1}) (S_1^{-1}) (S_2^{-1}) + \frac{U_{be1}}{R_c} (S_1^{-1}) (S_1^{-1}) (S_1^{-1}) (S_2^{-1}) + \frac{U_{be1}}{R_c} (S_1^{-1}) (S_1^{-1})$$

Assuming that the supply voltage E and the bias resistances are constant, the

$$\Delta I_{k2} \approx \frac{I_{k2}\Delta d_{2}}{d_{2}^{2} + \Delta d_{2}^{2}} = 3_{1}(3_{2}^{-1})\frac{I_{k1}\Delta d_{1}}{d_{1}^{2} + \Delta d_{1}^{2}} + 3_{2}\Delta I_{k02} - 3_{1}(3_{2}^{-1})\Delta I_{k01} + \frac{S_{2}^{-1}}{R_{1} \text{ add}} \Delta U_{be2} - \frac{(S_{1}^{-1})(3_{2}^{-1})}{R_{c}} \Delta U_{be1}$$
(6)

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u/106/61/e90/012/Q04/010 A055/A127

Transistorized a-c amplifiers with direct coupling

where :0%, ΔI_{k0} , ΔU_{be} are the variations of α , I_{k0} and U_{be} with temperature. The relative variation of I_{k2} can be expressed as:

 $\delta I_{k2} \approx \Delta I_{k2} / I_{k2}$ (7

The analysis of (6) and (7) permits to rate the stability of the static operation conditions. An experimental check reproduced in the article confirms the correctness of formulae (6) and (7). In multistage amplifiers, a negative voltage-feedback (for the d-c component and extending over three stages) is used, in addition to local current-feedbacks, to ensure a definite stability of the static operation conditions. The author presents a set of formulae for the three-stage amplifier, analogous to those given for the two-stage amplifier, i.e. formulae permitting to calculate I_{k1} , I_{k2} and I_{k3} , and also ΔI_{k3} . In the case of silicon transistors, the following approximate formula can be used:

$$\Delta I_{k3} \approx \frac{I_{k1}S_{1}\Delta\omega_{1}}{m(S_{1}^{-1})(\omega_{1}^{+}\Delta\omega_{1}^{-})} - \frac{I_{k2}S_{2}\Delta\omega_{2}}{m(S_{1}^{-1})(S_{2}^{-1})(\omega_{2}^{+}\Delta\omega_{2}^{-})}$$
(19)

where:

$$m = \frac{R_{1,2ad3}}{R_{10a,13} + R_0}$$
 (15)

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A055/A127

Transistorized a-c amplifiers with direct coupling

$$S_{1} = \frac{R_{1 \text{ oad } 3} + R_{0} + R_{1}}{R_{1} + (R_{1 \text{ oad } 3} + R_{0})(1 - \alpha_{1})}$$
(12)

$$s_2 = \frac{R_{10ed1} + R_2}{R_2 + R_{10ed1} (1 - \alpha_p)}.$$
 (13)

In the last part of the article, the author describes a practical method for designing a three-stage amplifier and gives the results of an experimental check of this method. In conclusion, the author emphasizes that, in the calculation of the stability of the static operation conditions, it is necessary to take into account, not only the effect of the variation of I_{kO}, but also the effect of the variation of of and even (if precise calculation is desired) of U_{be}. There are 3 figures, and 5 references: 4 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: Sautels. A stable direct-coupled transistor servo preamplifier. "Communication and Electronics", 1959, no. 40. The names of the Soviet-bloc authors or scientists mentioned in the article are: Nikolayenko, N. S., Radiotekhnika, 1958, v. 13, no. 2; Voyshvillo, G. V., and Davydov, V. S.,

Card 4/5

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Transistorized a-c amplifiers with direct coupling.

Radiotekhnika, 1956, v. 11, no. 104

SUEMITTED: April 12, 1961

Card 5/5

GROSHEY, A. L., KUZNETSOV, V. V., SVESHNIKOV, A. G., SEMASHKO, N. N., BALEBANOV, V. M., VOLKOV, B. I., GLASKO, V. B.,

"Motion of Individual Charged Particles in Helical-Symmetry Magnetic Field,"

report presented at the 6th Intl. Conf. on Ionization Phenomena in Gases, Paris, France, 8-13 Jul 63

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051702

GROSHEV, A. L., KUZNETSOV, V. V., SVESHNIKOV, A. G., SEMASHKO, N. N., BALEBANOV, V. M., CLASKO, V. B.,

"Study of Individual Charged Particle Motion in "fluted" Magnetic Fields,"

report presented at the 6th Intl. Conf. on Ionization Phenomena in Gases, Paris, France, 8-13 Jul 63

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051702

BALEBANOV, V.M.; GLASKO, V.B.; GROSHEV. A.L.; KUZNETSOV, V.V.;

SVESHNIKOV, A.G.; SEMASHKO, N.N.

Motion of single charged particles in undulating magnetic fields.

Atom. energ. 15 no.4:318-319 0 '63. (MIRA 16:10)

BALEBANOV, V.M.; VOLKOV, B.I.; GLASKO, V.B.; GROSHEV, A.L.; KUZNETSOV, V.V.; SVESHNIKOV, A.G.; SEMASHKO, N.N.

Motion of isolated charged particles in a magnetic field with helical symmetry. Atom. energ. 15 no.5:409-410 N '63. (MIRA 16:12)

GROSHEV, A.P.

[Technical analysis] Tekhnicheskii analis. Moskva, Gos. nauchno tekhn. isd-vo khim. lit-ry, 1953. 519 p. (Chemistry, Technical)

PHESE I BOOK EXTREMENT TO CIA-RDP86-00543R000513

PHESE I BOOK EXTREMENT TO COSHIMIZANT, 1958,

Whicheskiy analiz (rechnical Analysis) 2d ed. Moscow, Goshimizant, 1958,

Whicheskiy analiz (rechnical Analysis) 2d ed. Moscow, Goshimizant, 1958,

Whicheskiy analiz (rechnical Analysis) 2d ed. Moscow, Goshimizant, 1958,

Whicheskiy analiz (rechnical Analysis) 2d ed. Moscow, Goshimizant, 1958,

Whicheskiy analiz (rechnical Analysis) 2d ed. Moscow, Goshimizant, 1958,

Whicheskiy analiz (rechnical Analysis) 2d ed. Moscow, Goshimizant, 1958,

Whicheskiy analiz (rechnical Analysis) 2d ed. Moscow, Goshimizant, 1958,

Whicheskiy analiz (rechnical Analysis) 2d ed. Moscow, Goshimizant, 1958,

Whicheskiy analiz (rechnical Analysis) 2d ed. Moscow, Goshimizant, 1958,

Whicheskiy analiz (rechnical Analysis) 2d ed. Moscow, Goshimizant, 1958,

Whicheskiy analiz (rechnical Analysis) 2d ed. Moscow, Goshimizant, 1958,

Whicheskiy analiz (rechnical Analysis) 2d ed. Moscow, Goshimizant, 1958,

Whicheskiy analiz (rechnical Analysis) 2d ed. Moscow, Goshimizant, 1958,

Whicheskiy analiz (rechnical Analysis) 2d ed. Moscow, Goshimizant, 1958,

Whicheskiy analiz (rechnical Analysis) 2d ed. Moscow, Goshimizant, 1958,

Whicheskiy analiz (rechnical Analysis) 2d ed. Moscow, Goshimizant, 1958,

Whicheskiy analiz (rechnical Analysis) 2d ed. Moscow, Goshimizant, 1958,

Whicheskiy analiz (rechnical Analysis) 2d ed. Moscow, Goshimizant, 1958,

Whicheskiy analiz (rechnical Analysis) 2d ed. Moscow, Goshimizant, 1958,

Whicheskiy analiz (rechnical Analysis) 2d ed. Moscow, Goshimizant, 1958,

Whicheskiy analiz (rechnical Analysis) 2d ed. Moscow, Goshimizant, 1958,

Whicheskiy analiz (rechnical Analysis) 2d ed. Moscow, Goshimizant, 1958,

Whicheskiy analiz (rechnical Analysis) 2d ed. Moscow, Goshimizant, 1958,

Whicheskiy analiz (rechnical Analysis) 2d ed. Moscow, Goshimizant, 1958,

Whicheskiy analiz (rechnical Analysis) 2d ed. Moscow, Goshimizant, 1958,

Whicheskiy analiz (rechnical Analysis) 2d ed. Moscow, Goshimizant, 1958,

Whicheskiy analiz (rechniz

OR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051702

"APPROVED FOR RELEASE: Thursday, July 27,	2000 C	IA-RDP86-00513R	00051702
Polytechnical Institute imeni V.I. Lenin) and the inchnikum (Yaroslavi, Tekhnikum for Chemistry and Market OF CONTENTS Coword to the Second Edition	725 Yaroslavski Mechanics).	khimiko-mekhanidres There are 42 refer	kiy ences,
I. INTRODUCTION chnical Analysis, Its Significance and Methods iculations in Technical Analysis betermination of equivalent weights Expressions for concentration of solutions Calculations in gravimetric analysis Calculations in volumetric analysis Importance of sampling Sampling of Gross Sample Sampling of solids Taking primary sample Reducing of gross sample		9 12 13 13 14 17 19 21 21 22 23	
	Torna		1. K.

KUCHERYAVYY, F.I., kand.tekhn.nauk; MAYNOV, V.I., inzh.; GRUSHEV, A.S.;
TSIBULEVSKIY, A.I.

Using inclined boreholes in limostone quarries. Gor.zhur. no.3:31(MIRA 18:5)
35 Mr '65.

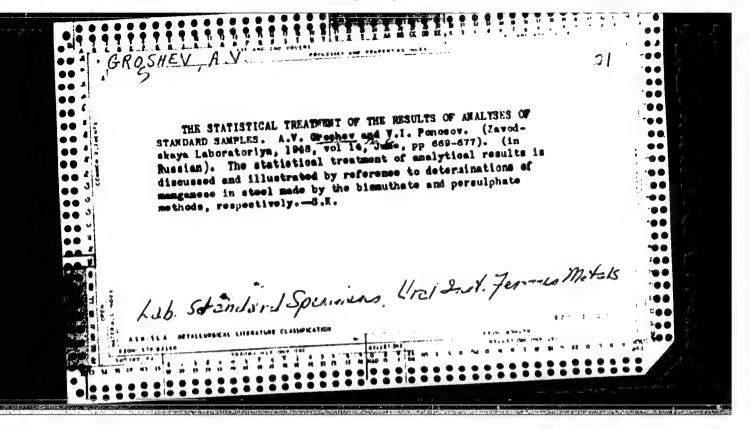
1. Dnepropetrovskiy gornyy institut (for Kucheryavyy, Maynov).
2. Upravlyzyushchły Balaklavskim rudoupravleniyem (for Groshev).
3. Glavnyy inzh. Balaklavskogo rudoupravleniya (for Tsibulevskiy).

KUCHERYAVYY, F.I., kand. tekhn. nauk; MAYNOV, V.I., inzh.; GROSHEV, A.S., inzh.

Effectiveness of using igdanite in the flux limestone quarries of Crimea. Vzryv. delo no.57/14:240-244 '65. (MIRA 18:11)

1. Dnepropetrovskiy gormy institut (for Kucheryavyy, Maynov).

2. Balaklavskoye rudoupravleniye (for Groshev).



LEDMEY, M.A., professor; OROSHEY, A.V.; YELISTRATOVA, T.A.; MIKITIN, B.D.;

PENTIOVSKIY, M.V.; PRECEAL MESSIY, M.A.; RUMSHISKIY, L.Z.

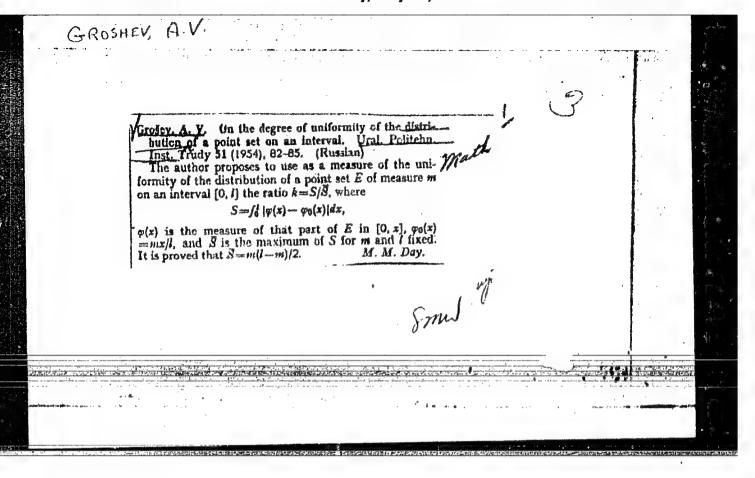
[Practical mathematical work on calculating machines and instruments]

Matematicheskiy praktikus na schetnovychislitel'nykh proborakh i

instrumentakh. Moskva, Gos. ixd-vo "Sovetskaia nauka," 1954. 365 p.

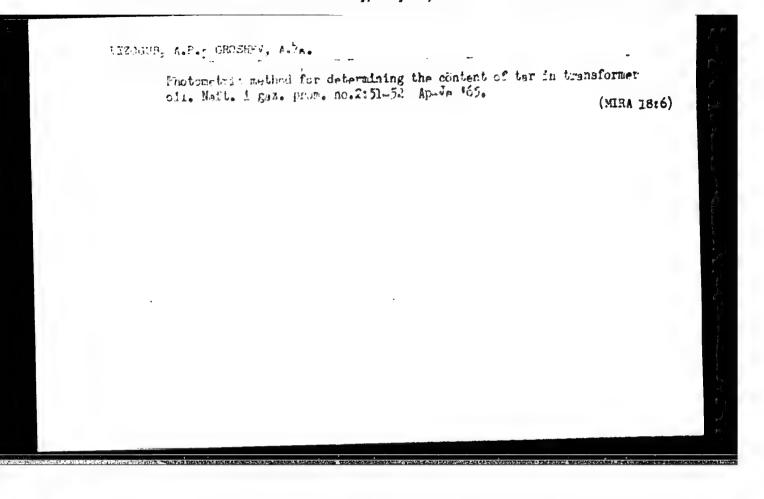
(Galculating machines)

(Approximate computation)



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CIA-RDP86-00513R00051702

GROSHEV	ACC-11-24 NEUTRON-CAPTURE NUCLEI, B. P. Adyas Domidov, p. 185-208 of OF SCIENCES OF THE USES OF ATOMIC ENE OF THE DIVISION OF SCIENCES, (Translate This pages	35((Pt. 1) (p.195-208)) Y-RAY SPECTRA OF SOME HEAVE evich, B. D. Groshov, and A. M. 4 CONFERENCE OF THE ACADEMY USSR ON THE PEACEFUL RGY, JULY 1-5, 1955. SESSION PHYSICAL AND MATHEMATICAL on). 14p. 131ly abstracted from the Russian Science Abstracts as NSA 9-7207.	erm par	PML 1	the state of the s
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PRYAKHIM, Iven Petrovich; GROSHEV, B.I., red.; ARNOL'DOVA, K.S., red. izd-ve; PARAKHIMA, W.L., tekhn.red.

[Tula forest belt; natural history study and prerequisites for the improvement of forestry] Tulyakie saseki; estestvennoistoricheskii ocherk i predposylki k pod*emu kul*tury lesovodstva v sasekakh. Moskva, Goslesbumizdat, 1960. 125 p.

(MIRA 13:10)

(Tule Province -- Forests and forestry)

AMUCHIM, Mikolay Pavlovich, prof.; GROSHEV, B.I., red.; GOROKHOV, M.G., red.izd-ve; PARAKHIMA, M.L., tekhn.red.

[Optimal felling age for trees in the European U.S.S.R.] Optimal'nye vozrasty rubki dlie lesov evropeiskoi chasti SSSR. Moskva. Goslesbumisdat, 1960. 131 p. (MIRA 13:6)

1. Chlen-korrespondent Vsesoyusnoy skademii sel'skokhosysystvennykh neuk imeni V.I.Lenina (VASKHNIL) (for Anuchin).

(Tree felling)

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051702

PONOMAREV, Aleksandr Dmitriyevich; GROSHEV, B.I., red.; FILIMONOVA,
A.I., red.izd-va; SHIBKOVA, R.Ye., tekhn.red.

[Organization of forestry and forest management in the U.S.S.R.]
Organizatsiia lesnogo khoziaistva i lesoupravleniia v SSSR. MoOrganizatsiia lesnogo khoziaistva i lesoupravleniia v SSSR. Moskva, Goslesbumizdat, 1961. 47 p. (MIRA 16:2)

(Forest management)

GROSHEV, Boris Ivanovich; SEPEROVICH, I.P., red.; LABAZINA, S.N., red. 12d-va; PARAKHINA, N.L., tekhn. red.

[Forest evaluation and the preparation of timber resources]
Lesnaia taksatsiia i podgotovka lesosechnogo fonda. Moskva,
Goslesbumizdat. 1961. 63 p.

(Forests and forestry--Valuation)

TAMARKIN, Mark Livovich; GiOSHEV, B.I., 10d. [Forests, forestry, and the characteristics of the taking stock of forests and forest management in North America]
Lesa, lesnoc khoziaistvo i osobennosti lesoinventarizatsii

i lesoustroistva v Severnei Amerike. Moskva, Lesnaia promyshlennost, 1964. 192 p.

BIKKULOV, A.Z.; GROTHLV, B.M.

Use of an anti-solvent in the extraction of hydrocarbon fractions.

Izv.vys.ucheb.zav.; neft' i gaz o no.ll:71-73 '63. (MIRA 17:9)

1. Ufimakiy neftyanoy institut.

BIKKULOV, A.Z.; KHLESTKIN, R.N.; GROSHEV, B.M.; KHAMAYEV, V.Kh.; ZARIPOV, A.G.

Use of petroleum toluene to obtain terephthalic acid. Nefteper. i neftekhim. no.8:33-35 '63. (MIRA 17:8)

1. Ufimiskiy neftyanoy institut.

L 23466-65 EWT(m)/EPF(o) Pr-4, RM

ACCESSION NR: AP4049831

8/0318/64/000/011/0024/0028

.

AUTHOR: Bikkulov, A.Z.; Groshev, B.M.

TITLE: Glycola as selbctive solvents for hydrocarbon extraction

SOURCE: Nestepererabotka i nestekhimiya, no. 11, 1964, 24-26

TOPIC TAGS: glycol solvent, aromatic hydrocarbon extraction, glycol extractor, selective solvent, petroleum refining

ABSTRACT: Aromatic hydrocarbons produced by the catalytic cracking of petroleum are extracted from the catalyzate by liquid solvents. The purpose of this paper was to compare the action of different glycol solvents as to their extraction power and selectivity. It was found that triethylene glycol is superior to diethylene glycol. Apparently, higher molecular weight increases the dissolving power of the glycols, permitting extraction at lower temperatures. Polypropylene carbonate is most promising for the extraction of gasoline fractions. It has good dissolving power and excellent selectivity. Diethylene glycol, which is widely used in industry, is considerably inferior to polypropylene carbonate. Addition of widely used in industry, is considerably inferior to polypropylene carbonate. Addition of water to diethylene glycol lowers its dissolving power without improving its selectivity. Artificial mixtures of 50% o-xylene with 50% nonane were subjected to extraction by different solvents and the results were plotted on curves. The investigated solvents formed

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ACCESSION NR: AP4049831

the following series according to decreasing dissolving power: ethylcarbitol, propylene carbonate, propylene glycol, diethylene glycol; according to decreasing selectivity: propylene carbonate, ethylene carbonate, ethyl carbitol, diethylene glycol, propylene glycol.

Orig. art. has: 3 figures and 1 table.

ASSOCIATION: Ufimakly deflyancy institut (Ufa Petroleum Institute)

SUBMITTED: 00

ENCL: 00

SUB CODE: OC, FP

NO REF SOV: 006

OTHER: 001

Card 2/2

1, =3785-55 ACCESSION NR: AP5014946 UR/0065/65/000/006/0013/0018 665.52.061.5

AUTHORS: Bikkulov, A. Z.; Groshev, B. M.; Popov, V. A.

TITLE: Selective solvents for hydrocarbon extraction

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 6, 1965, 13-18

TOPIC TAGS: solvent, solvent action, solvent extraction, hydrocarbon, furfurole, dimethylformamine/ DEG selective solvent

ABSTRACT: A new procedure is recommended for hydrocarson extractions according to which the selective and dissolving capacities of 27 solvents were compared. Several extractions were made with each solvent at the temperature interval limited by the critical temperature of solution at the maximum and that of the phasal state variation at the minimum point. The results are presented graphically as curves showing the relation of the extraction temperature to the quantity of extract and of the extract yield to the selectivity index. Three types of crude were used in the experiments: 1) deparaffined oil fraction 400-5000; 2) a mixture of 30% alpha-methylnaphthalone and 70% cetane; 3) equal quantities of o-cylene and n-nonane. The separation selectivity of the 2 and 3 crudes was Card 1/3

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L 53785-65 ACCESSION NR: AP5014946

calculated according to formula;

 $H = \frac{a(1-b)}{b(1-a)},$

where N - selectivity, a and b are the content of aromatics in the extract and raffinate. No definite relation between the dissolving and selective capacities of solvents was established. The solvents studied, arranged in order of their selectivity decrease, were: nitrobenzene; benzaldehyde; phenol, furfurole; benzyl alcohol; crotonaldehyde; aniline, chlorax; diacetone alcohol, ethylecellosolve; ethylene chlorohydrin, acetone, n-propanol; acetic acid. Arranged in order of their decreased dissolving capacity, they were: nitrobenzene, benzaldehyde; crotonaldehyde; n-propanol; chlorax; phenol; ethylcellosolve; benzyl alcohol; acetone; diacetone alcohol; aniline; furfurole; ethylene chlorohydrin, acetic acid. Dimethyl formamide and furfurole proved to be the best chlorohydrin, acetic acid. Dimethyl formamide and furfurole proved to be the best practical solvents for medium distillates; sulfolane, propylene carbonate, and othylene carbonate were best for the extraction of low-molecular aromatics from benzene fractions. Because of great difference between the boiling points of these solvents and crudes, they are regenerated easily by distillation. Their propersolvents are superior to those of the popular selective solvent DEG. Orig. art. has; I table and 6 figures.

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L 53785-65 ACCESSION NR: APS	014946			0
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BIKKULOV, A.Z.; POPOV, V.A.; GROSHEV, B.M.

Selective solvents for extracting aromatic hydrocarbons from gaseline fractions. Nefteper. i neftekhim. no.6:33-34 165. (MIRA 18:7)

1. Ufimskiy neftyanoy institut.

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051702

BIKKULOV, A.Z.; GROSHEV, B.M.; FOPOV, V.A.

Comparison of selective solvents. Izv. vys. ucheb. zav.; neft' i gaz
8 no.6167-72 '65.

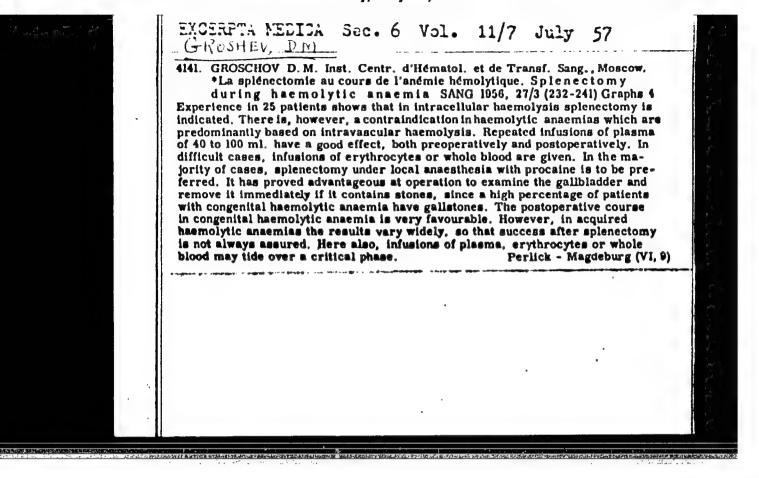
(MIRA 1817)

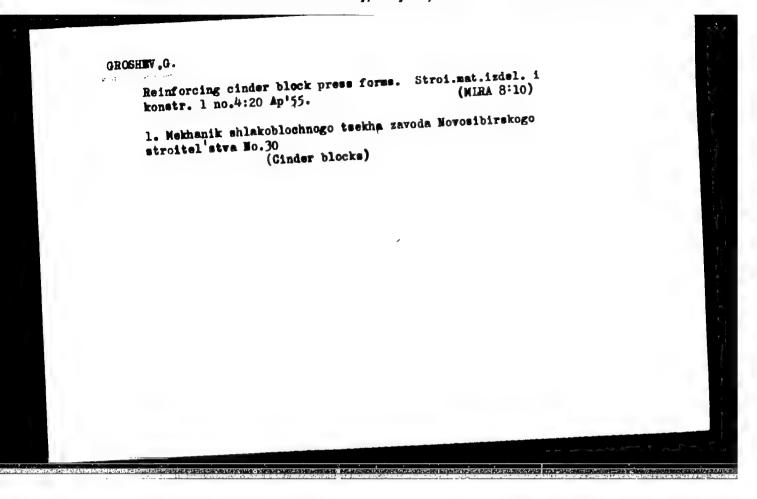
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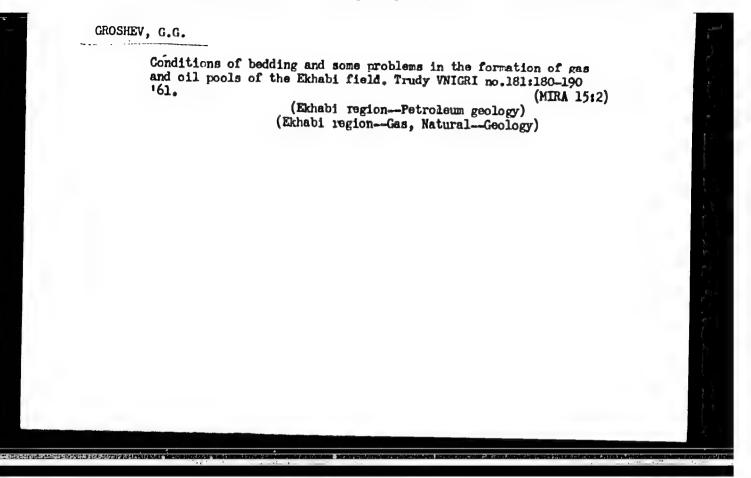
L 28958-66 EWT(m)/T WE	100
ACC NR: AP6019085 SOURCE CODE: UR/0152/65/000/007/0059/0061	
AUTHOR: Bikkulov, A. Z.; Groshev, B. H.; Popov, V. A.	g . 3
ORG: Ufa Petroloum Institute (Ufisskiy neftyanoy institut)	
TITLE: Selective solvents for middle petroleum distillates	Ġ
SOURCE: IVUZ. Neft' i gaz, no. 7, 1965, 59-61	
TOPIC TAGS: fractional distillation, petroleum refining, nitromethane, solvent extraction	
ABSTRACT: Fifteen compounds were studied as possible selective solvents for extractive separation of middle distillates. It was shown that the most suitable selective solvents for middle distillates include dimethylformanide and furfurol, exhibiting at operating temperatures quite high dissolving and selective capacity. They can also be regenerated fairly easily. Sulfolan, propylene carbonate, and ethylene carbonate can be used in the extraction of the middle distillates. However, in view of the high boiling points, these solvents require special regeneration methods. Use of nitromethane and acetonitrile with sufficient temperature coefficients and satisfactory dissolving and selective capacity, can be used to prevent boiling of solvents at elevated pressures in the extraction equipment. Orig. art. has: 2 figures and 1 table. [JPRS] SUB CODE: 11, 07 / SUBM DATE: OlAug64 / ORIG REF: 007	
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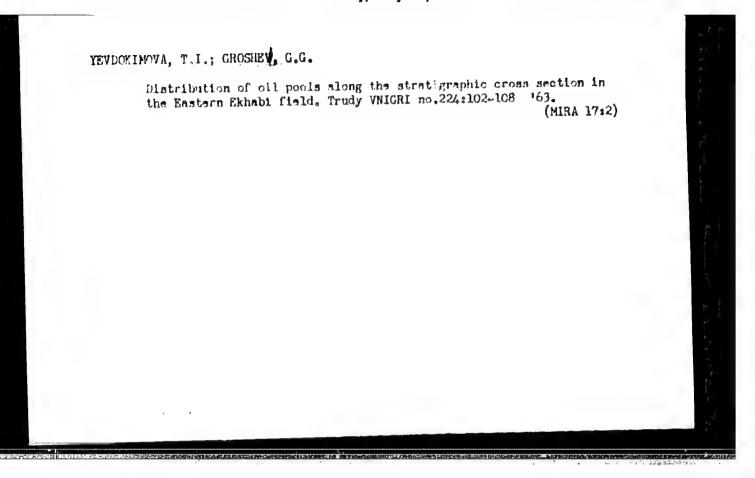




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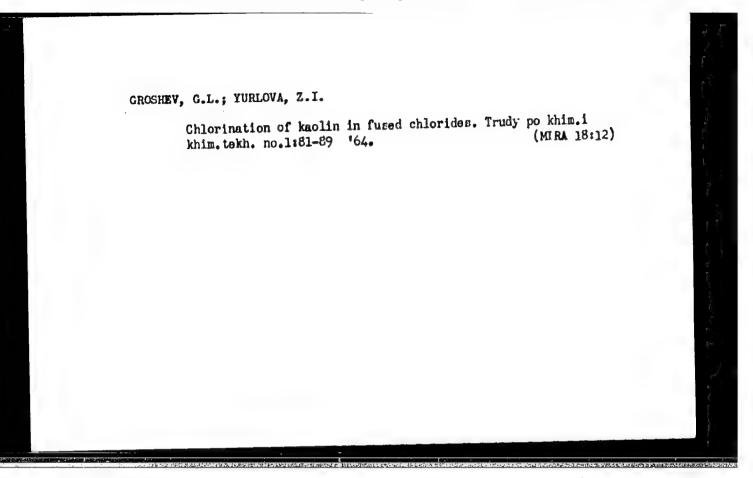
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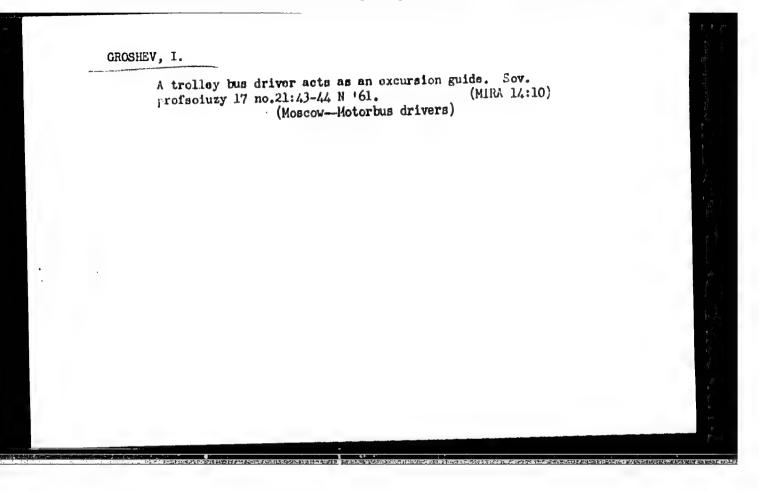
GROSHEV, G.L.

Interaction of metallic aluminum with hydrogen chloride in fused selts. Trudy po khim.i khim.tekh. no.1:64-74

Effect of a cation of salt in the system MCl - AlCl₃ and of additions of some metal chlorides on the reaction rate of metallic Al with HCl in fused salts. Ibid.:75-80 (MIRA 18:12)



"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051702



GROSHEY, I.A. inzh.; IL'IN, E.I., inzh.; RABINOVICH, G.A., inzh.; SIIKOVSKIY, A.Ya., inzh.; TSIBULEVSKIY, A.I., inzh.

Automatic conveyor line. Mekh. i avtom. proisv. 17 no.5:5-6 My 163. (MIRA 16:6)

(Balaklava—Conveying machinery)
(Electronic control)

s/109/62/007/002/022/024 31,497 D256/D303

26.2253 26.1140

Morgulis, N.D., Levitskiy, S.M., and Groshev, I.N.

A THUKS:

Current oscillations in the system of a thermo-electro-

TITLE:

nic energy converter with cesium vapor

PERIODICAL:

Radiotekhnika i elektronika, v. 7, no. 2, 1962,

TEXT: The experimental cesium-vapor tube contained a Tatape cathode and a similar anode covered with a layer of cesium and provided de and a similar anode covered with a layer of costum and provided with additional screening electrodes, the distance between the anode with additional screening adjustable. The following parameters were de and the cathode being adjustable. The temperature of the cathode T_k , varied during the investigation: The temperature of the cathode T_k , the saturation temperature of the cesium vapor t and the distance between the electrodes d. It was found that for a given d there are two discrete regions where oscillations exist, these are shown on a $t-T_k$ diagram. In the low T_k regions the oscillations are almost purely sinusoidal with a frequency ranging from 20 to 160 kcs/sec. Card (1/2

Current oscillations in the ...

S/109/62/007/002/022/024 D256/D303

In the second region of oscillations with higher T_k the oscillations were non-sinusoidal and their frequency was in the range of 1000 kcs/sec, the output power of the oscillations at this region being appreciable. The output power was investigated for both a.c. and d.c. as a function of the load resistance with the remaining parameters fixed at the following values: $T_k = 2450^{\circ} \text{K}$; $t = 120^{\circ} \text{C}$; $d = 120^{\circ} \text{C}$

1 mm, and 3.6 and 0.9 watt/cm² maximum values of the output power were observed for d.c. and a.c. respectively, the corresponding voltages being 1.9 and 0.9 V. The respective efficiency of the converter for d.c. and a.c. was estimated to be $\eta_1 \geqslant 5$ %, $\eta_2 \geqslant 1$ %. There

are 3 figures and 4 references: 2 Soviet-bloc and 2 non-Soviet-bloc. The references to the English-language publications read as follows: R. Fox and W. Gust, Bul. Amer. Phys. Soc., 1960, 5, 80; Electronics 1960, 33, 5, 78.

ASSOCIATION: Kiyevskiy gosudarstvennyy universitet im. T.G. Shevchenko (Kiyev State University im. T.G. Shevchenko)

SUBMITTED: July 3, 1961

Card 2/2

CIA-RDP86-00513R00051702 "APPROVED FOR RELEASE: Thursday, July 27, 2000

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11.1511 ...

16.2(32 26.2132 S/185/62/007/004/018/018 D407/D301

AUTH RS:

Korchevyy, Yu. P., and Broshev, I. M.

TITTE:

On the characteristics of a thermoelectronic energy-converter with metallic-caesium

cathodes and small electrode gap

PERIODICAL:

Ukrayins'kyy fizychnyy zhurnal, v. 7, no. 4, 1962, 447-448

The characteristics of an experimental energy-converter with metallic-caesium cathodes are described; the results given are preliminary. The distance d between the electrodes could be altered within wide limits. A figure shows the isobars of electronic emission (i.e., the short-circuit current I₀) without an additional ionizer, at a pressure p = 1.0 - 3.6 mm Hg, d = 0.1 mm. Owing to the neutralization of the electronic space-charge by caesium ions, it is possible to obtain large

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S/185/62/007/004/018/018 D407/D301

On the characteristics... '

values of I_0 (e.g., $I_0=7~\rm amp/cm^2$ at a chamber-temperature $t_b=330^{\circ}{\rm C}$ and cathode temperature $T_c=2150^{\circ}{\rm K}$). Another figure shows the current-voltage characteristics of emission. From the characteristics, it is evident that useful energy-conversion power $W=6.5~\rm watt/cm^2$ can be obtained with an optimal output-voltage $V\approx 1.1~\rm volt;$ a qualitative estimate of the efficiency factor yielded $\eta < 9\%$. If a molybdenum cathode is used, one obtains $I_0=30~\rm amp/cm^2$, $W=12.5~\rm watt/cm^2$, $V=1.0~\rm volt$ (with $T_c=2400^{\circ}{\rm K}$, and $t_b=360^{\circ}{\rm C}$). All these values are quite satisfactory, but the authors hope to obtain still better results. The dependences

$$1g \frac{I_0 - I}{I} = f(V) ,$$

Card 2/3

S/185/62/007/004/018/018 D407/D301

On the characteristics...

constructed by the method of E. Carabateas et al. (see references), are two straight lines. The electron temperature Te of the interelectrode plasma was estimated by the slope of these lines. Te was equal to 2900 K for the first straight line (Ta cathode, te = 330°C), and 5500°K for the second (Mo cathode, te = 360°C). There are 3 figures and 5 references: 2 Sovietbloc and 3 non-Soviet-bloc. The references to the English-language publications read as follows: R. Hirsch, J. Appl. Phys., 51, 2064, 1960; E. Carabateas, S. Pezaris and G. Hatsopoulos, J. Appl. Phys., 32, 352, 1961; F. Mohler, J. Res. Bur. Stand., 21, 873, 1938.

ASSCCIATION:

Kyyivs'kyy derzhuniversytet im. T. H. Shevcheka (Kyyiv State University im. T. H. Shevchenko)

SUBMITTED:

December 30, 1961

Card 3/3

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S/185/62/667/005/013/613 D407/DD01

NUTHURS:

Kucherenko, Ye.T., and Hroshev, I.M.

7-77:

Investigating energy spectrum of the canal rays of

unomalous glow-discharge

DIMIODIOLL:

Ukraying kyy fizychnyy zhurnal, v. 7, no. 5, 1962,

566 - 569

The presence of fine-structure in the energy spectrum of canal mays was observed by Ye.T. Rucherenko and G.A. Federus (Ref. 2: Midiotekimika i elektronika, 4, 1233, 1959). In the present work, the fine-structure is further investigated, with the purpose of determining a quantitative relationship between the fine-structure and certain parameters of anomalous glow-discharge. The energy-spectrum of the canal rays was investigated by the cylindrical-capacitor methol. The electrical measuring-circuit is shown in a figure. The discharge-chamber was of glass with a tantalum cathode and a mobile charge-chamber was of glass with a tantalum cathode and a mobile nickel-anode. In developing the experimental procedure, the first measurements were conducted with the discharge in an air atmosphere. Imalogous measurements were conducted in argon, and in a hyppton-Card 1/2

S/185/62/007/005/013/013 D407/D301

Investigating energy spectrum of ...

menon mixture. The dependence of the collector current on the ien energy is plotted. A study of the lependence of the magnitude of the energy-distribution peak on the conditions of anomalous glow-disenergy, showed that the determining parameter is the discharge current I_d. The relative magnitude of the peak increases sharply with rent I_d, the converse is also true. On the other hand, the cathode voltate U_c has no approciable effect on the relative magnitude of the peak. The presence of a pronounced peak in the energy distribution of small rays, is an indication of the probability of ion passage through the entire cathode space without considerable energy-losses through collisions. The presence of fast ions in the spectrum of cathody collisions. The presence of fast ions in the spectrum of cathody collisions glow-discharge, is an established fact. This hall rays of anomalous glow-discharge, is an established fact. This hall rays of anomalous glow-discharge, is an established fact. This hall rays of anomalous glow-discharge, is an established fact. This hall rays of anomalous glow-discharge, is an established fact. This hall rays of anomalous glow-discharge, is an established fact. This hall rays of anomalous glow-discharge, is an established fact. This hall rays of anomalous glow-discharge, is an established fact. This

non-Soviet-bloc, (including 1 translation).
ASSOCIATION: Mygivs'kyy derzhuniversytet im. T.H. Shevchenka (Mygiv
State University im. T.H. Shevchenko)

SUBMITTIND: January 30, 1962

Card 2/2

GROSHEV, I.N.
AID Nr. 979-9 29 May

OSCILLATIONS IN A CESIUM-VAPOR DIODE (USSR)

Levitskiy, S. M., and I. N. Groshev. Radiotekhnika i elektronika, v. 8, no. 4, Apr 1963, 612-618. S/109/63/008/004/009/030

Plate-current oscillations in a diode filled with cesium vapor were investigated by means of an experimental tube operated at various values of vapor pressure, cathode heating, and anode voltage. The cathode was a thin, 1-mm wide tantalum strip, while the anode was formed by tantalum plates placed on both sides of the strip, which could be simultaneously adjusted either closer or farther apart, thus changing the distance from plate to cathode from 0.7 to 10 mm. The tube was placed in a thermostat whose temperature could be regulated from 20 to 300°C. Either a resistance directly connected in the plate current, or one coupled to it through an hf transformer, served as the load. Results of the investigations confirm the existence of two modes of oscillation: mode I corresponds to high pressure and low cathode temperature, and mode II corresponds to low pressure and high cathode temperature. Mode I oscillations are of low intensity and have a

Card 1/2

AID Nr. 979-9 29 May

OSCILLATIONS [Cont'd]

s/109/63/008/004/009/030

frequency of the order of 1 to 20 kc and a waveform close to sinusoidal. In mode II, the mode principally discussed, oscillations are very intense, have a frequency of the order of 100 to 1000 kc, and may have a waveform quite different from the sinusoidal. In mode II oscillation the amplitude decreases with a drop in cathode temperature and ceases abruptly at a critical lower boundary temperature. At a cathode temperature of about 2000°K, the oscillation frequency varies at first only slightly, but on approaching the lower boundary it suddenly increases almost twofold. Moreover, mode II oscillation intensity decreases as anode voltage is reduced to zero and then to negative values, and disappears at some critical negative potential. Oscillations disappear also at excessive positive potentials. This positive potential limit was found to vary directly with the cathodeanode spacing, and also directly with increased cathode temperature. From the analysis of test results it is concluded that the oscillatory condition is linked to the bunching action of gas ions in the interelectrode space. Measurements with an ion probe support this view. [DW]

Card 2/2

ACCESSION NR: AP4009985

5/0109/64/009/001/0132/0137

AUTHOR: Levitskiy, S. M.; Greshev, L. N.

TITLE: Oscillatory phenomena in cesium-vapor-filled diodes

SOURCE: Radiotekhnika i elektronika, v. 9, no. 1, 1964, 132-137

TOPIC TAGS: cesium diode, cesium vapor filled diode, cesium tube oscillator, cesium tube oscillator phenomena, frequency pulling, frequency locking, diode synchronization

ABSTRACT: An experimental study of frequency pulling, locking, parallel operation, and maximum power of oscillations set up in a cesium-vapor-filled diode is reported. The frequency pulling was measured at 200-300 kc and 2,300K temperature of the cathode, with the diode operating under intermittent (50 cps) generation conditions. A GSS-6 oscillator was used as a source of oscillations in the locking experiments; the locking range was observed as wide as 20%.

Card 1/2

ACCESSION NR: AP4009985

Parallel operation and synchronization were investigated in a scheme comprising two identical cesium diodes; frequency vs. coupling and total output power vs. load resistance curves are reported. A-c power and the efficiency of thermal-to-electric energy conversion constitute only a part of the d-c values which could have been obtained from the same diode under nonoscillatory conditions. "In conclusion, we wish to thank N. D. Morgulis for his constant interest in the work, his valuable advice and suggestions." Orig. art. has: 6 figures and 1 formula.

ASSOCIATION: none

SUBMITTED: 11Dec62

DATE ACQ: 10Feb64

ENCL: 00

SUB CODE: GE .

NO REF SOV: 005

OTHER: 006

Cord 2/2

ACCESSION NR: AP5017674	UR/0109/65/0 539-124-175	10/007/1346/1348	
AUTHOR: Groshev, I. M.	•	B	
TITLE: Transient and Cerenkov ra	diation of electron "Neaves"	11,44,55	•
SOURCE: Radiotekhnika i elektron	ika, v. 10, no. 7, 1965, 1340	5-1348	
TOPIC TAGS: transient radiation, ABSTRACT: Approximate formulas f	or the directional pattern as tended for designing the devi	Loss that produce	,
TOPIC TAGS: transient radiation, ABSTRACT: Approximate formulas i power are developed. They are in coherent radiation by using the Orig. art. has: 1 figure and 10	or the directional pattern and tended for designing the deviation of de-excitation (Loss that produce	,
TOPIC TAGS: transient radiation, ABSTRACT: Approximate formulas if power are developed. They are in coherent radiation by using the Orig. art. has: 1 figure and 10 ASSOCIATION: none	or the directional pattern and tended for designing the deviation of de-excitation (Loss that produce	,
TOPIC TAGS: transient radiation, ABSTRACT: Approximate formulas i power are developed. They are in coherent radiation by using the Orig. art. has: 1 figure and 10	for the directional pattern as stended for designing the devi phenomenon of de-excitation of formulas.	loes that produce of electron "leaves".	white/B

L 01176-66 EWT(1)/EPA(w)-2/EWA(m)-2 IJP(c) AT
ACCESSION NR: AP5017675 UR/0109/65/010/007/1348/1349
539.124.18.03

TITLE: Generation of electron "leaves" 21.44.55

SOURCE: Radiotekhnika i elektronika, v. 10, no. 7, 1965, 1348-1349

TOPIC TAGS: electron "leaf"

ABSTRACT: Interaction is explained between a uniform r-f field and a ribbon electron beam which can produce coherent radiation by means of electron "leaves". The coherent radiation occurs when $\delta \ll \lambda$, where S is the beam thickness and λ is the radiation wavelength. Equations determining sufficiently thin electron "leaves" with high current densities in them are set up. Orig. art. has: 3 figures and 7 formulas.

ASSOCIATION: none SUBMITTED: 14Sep64

ENCL: 00

SUB CODE: NP. BC

NO REF SOV: 002

OTHER: 000

Card 1/1

Study of stresses in the components and systems of agricultural machinery under field conditions. Trakt. 1 sel*khozmash. 32 no.6:30 31 Je *62. (MIRA 15:6) (Agricultural machinery ...*esting)

GROSHEV, L.M.

Results of testing the supporting structure of the SK-4 combine for stability. Trakt. i sel'khozmash. no.2:24-25 F '64. (MIRA 17:3)

1. Rostovskiy na Donu institut sel'skokhozyaystvennogo mashinostroyeniya.

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051702

9, 34486-65 EW2(1)/EEC(b)-2/EWA(h)

ACCESSION NR: AP5006042

B/0141/64/007/006/1217/1222 25

25

AUTHOR: Groshkov, L. M.

TITLE: Experimental investigation of the space charge in a cylindrical magnetron in the static mode

SOURCE: IVUZ. Radiofizika, v. 7, no. 6, 1964, 1217-1222

TOPIC TAGS: cylindrical magnetron, space charge, electron cloud, electron trajectory, magnetron, electron optical ranging

ABSTRACT: This is a continuation of earlier work by the author (with M. I. Kuznetsov, Izv. vyssh. uch. zav. -- Radiofizika v. 4, 1104, 1961) where it was shown that the electron trajectories in the lower part of the electron cloud of a magnetron are closed loops. In the present investigation the author studied experimentally the space charge in the upper part of the electron cloud of the magnetron using the same method of electron-optical ranging. To this end, a second longitudinal ranging electron beam is introduced into the magnetron at some distance from the cathode. The deflection of this beam in the field (in the direct vicinity of the peak of the first loop and above it), observed on a fluorescent screen,

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ACCESSION NR: AP5006042

makes it possible to determine the characteristics of this field, and in particular the potential distribution. The experiment was carried out with a special dismountable tube with two longitudinal ranging beams, having a construction similar to that described in the earlier paper, except that two pairs of metallic rings are incorporated to permit setting the potential on the edges of the magnetron, in addition to the supplementary equipment necessary to shape the second ranging beam. The accuracy of the experiments was estimated at better than 76. The experimental traces obtained on the fluorescent screen were compared with the theoretical curves, calculated under the assumption that the space charge corresponds to single-flow (Brillouin) state, double-flow state, and bidromic state. The experimental trace was most closely approximated by the bidromic theoretical curve. Since the presence of a bidromic state implies the existence of a virtual cathode inside the electron cloud, tests were made to see whether the sharpness of the trace on the screen can be varied by varying the position of this virtual cathode. Tests at different anode voltages and with a different tube construction have confirmed the presence of the virtual ca hode at the center of the electron cloud of the magnetron. "The author thanks M. I. Kuznetsov for continuous interest in the work and for valuable advice." Orig. art. has: 2 figures, 2 formulas, and 2 tables.

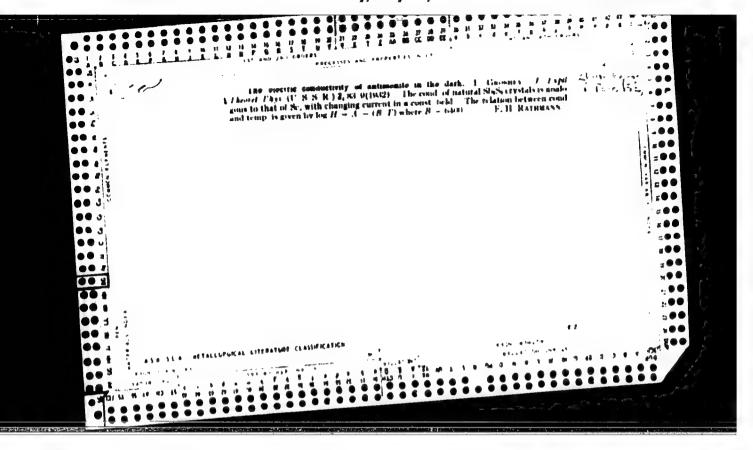
Card 2/3

ACCESSION NR: AP5006042

ASSOCIATION: Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete (Scientific Research Radiophysics Institute at Gor'kiy University)

SUBMITTED: 17Jan64 KNCL: OO SUB CODE: NP

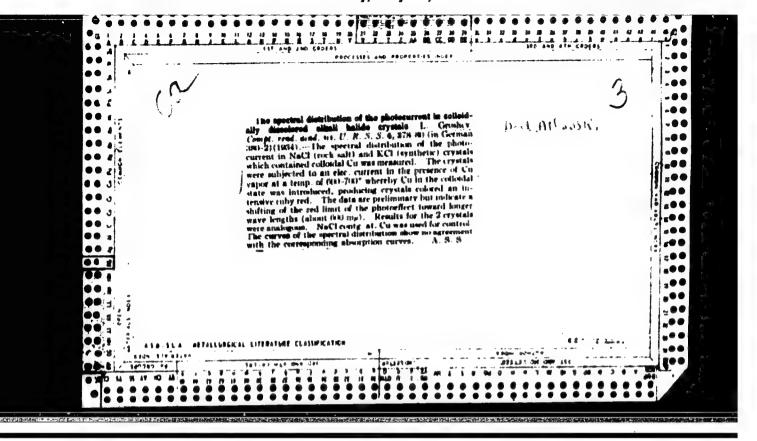
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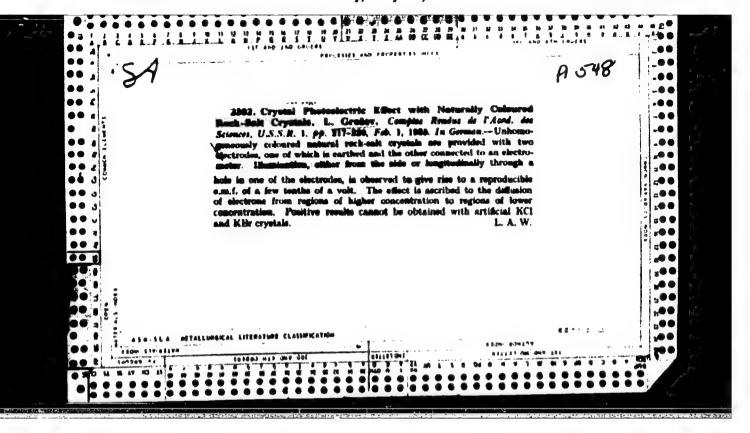


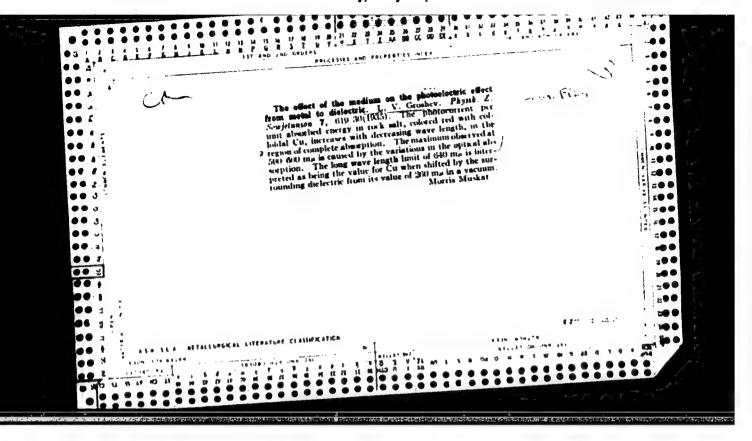
GROSHEV, L. V.,

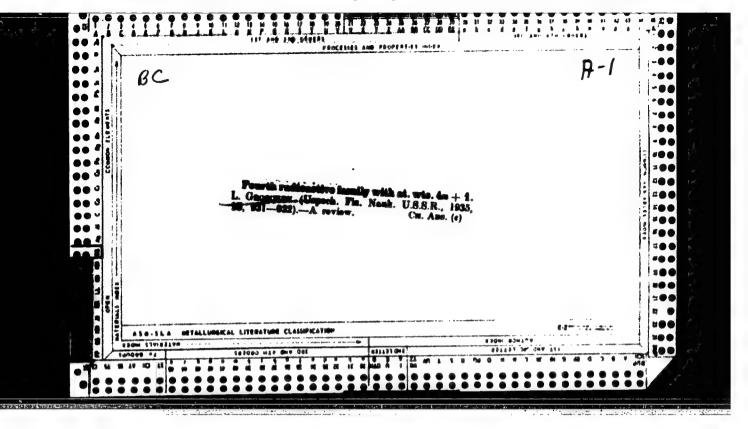
"Some Information on the Secondary Electron Emission From Potansium Surfaces," Zhurnal Tekhnicheskoi Fiziki, 1934, Vol. 4, pp 3/3-357.

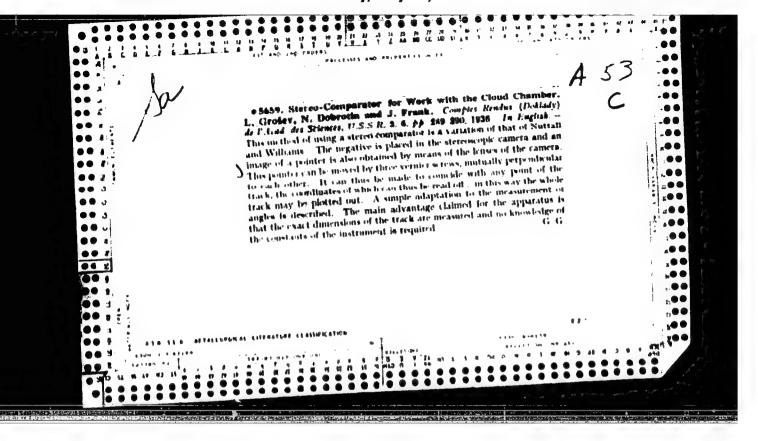
The secondary electron emission from several potassium surfaces of different structures and from potassium hydride has been measured; it varies with the different potassium surfaces, and from potassium hydride is nearly the same as from pure potassium, though the photo-electric current increases 15 times.

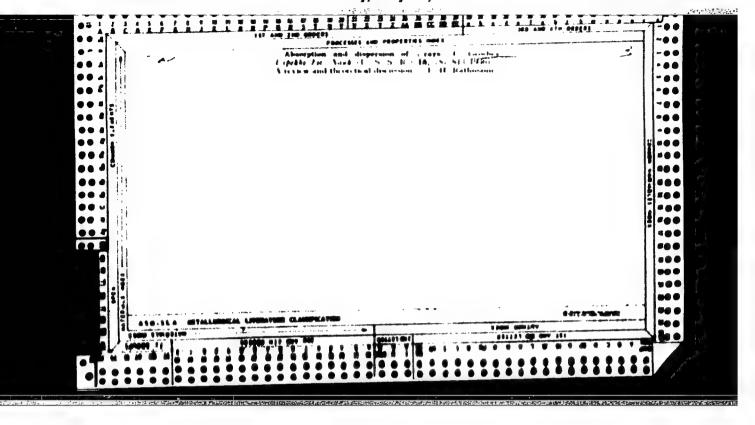


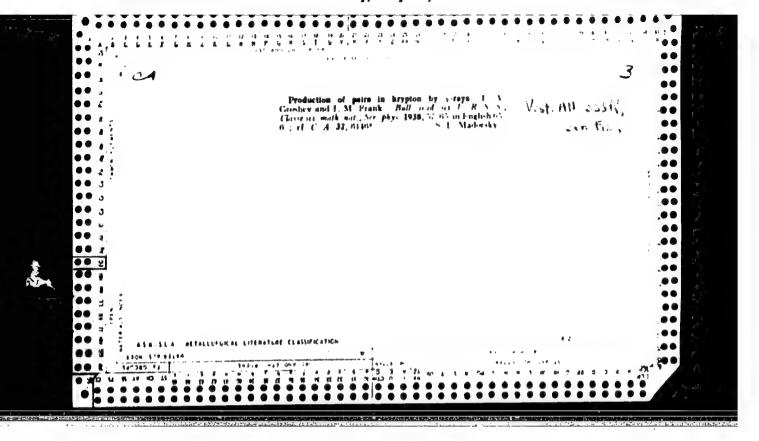


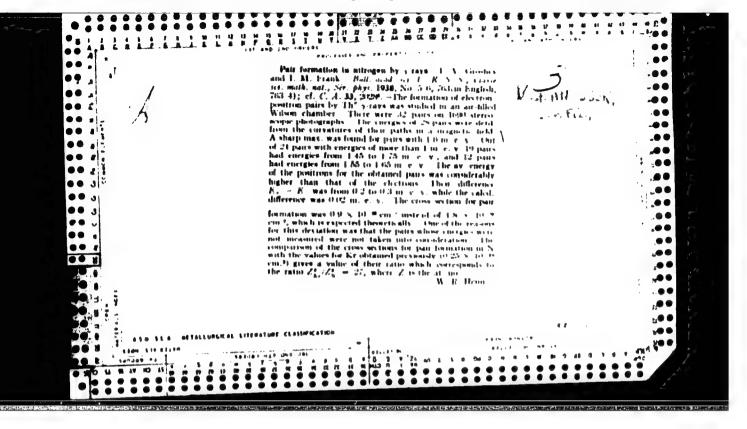


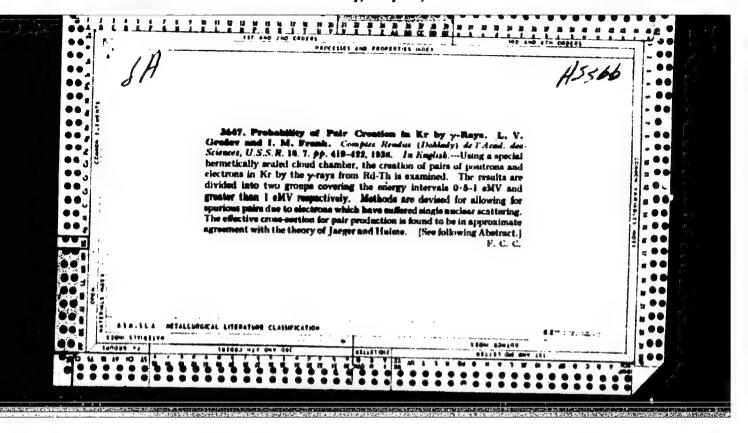


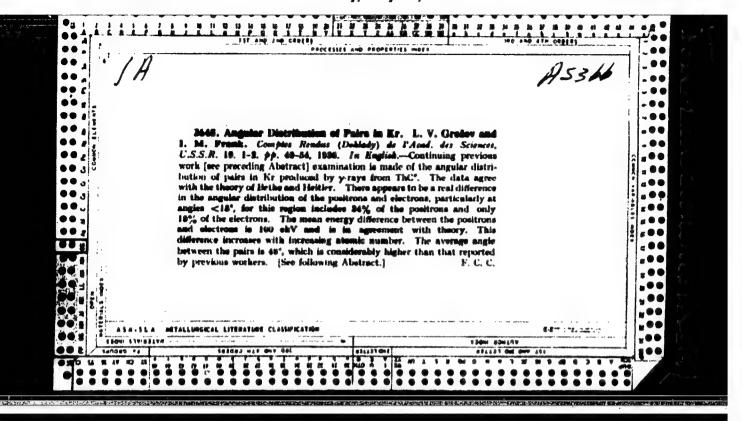


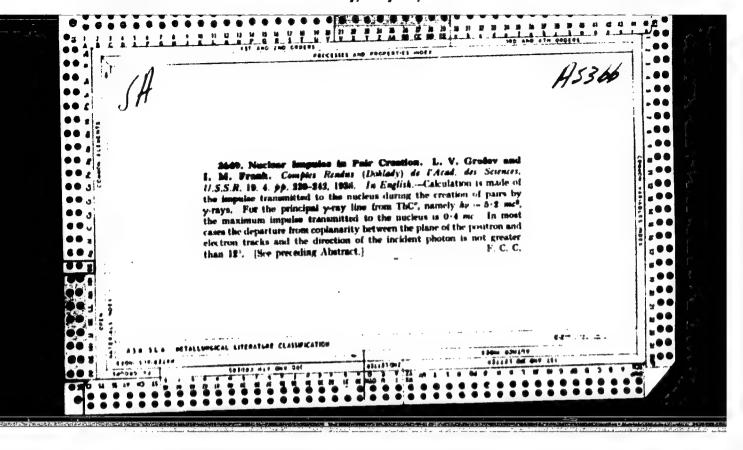


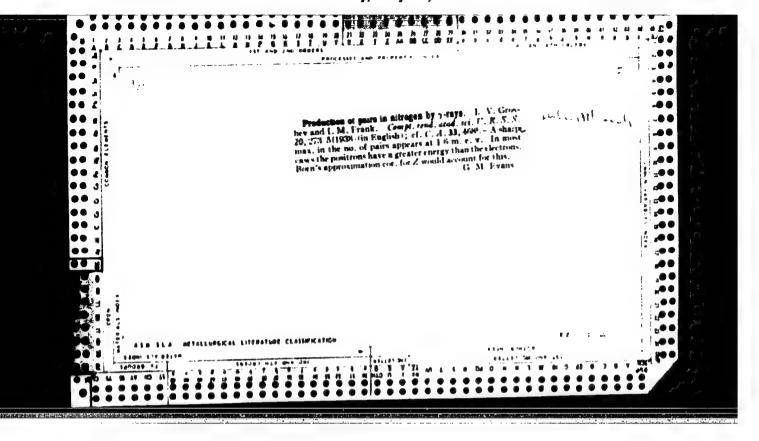








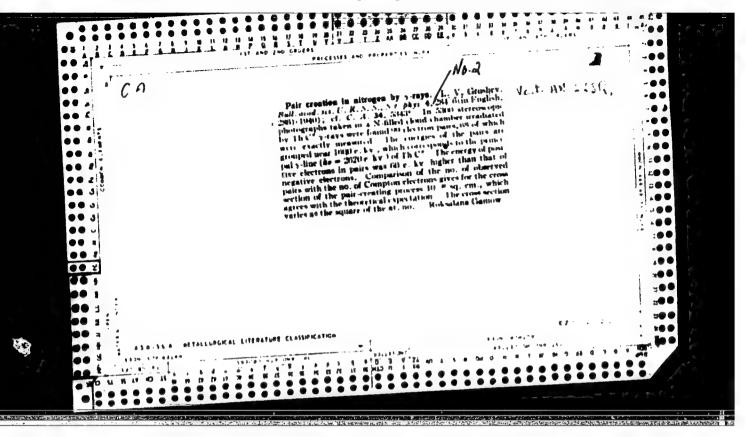


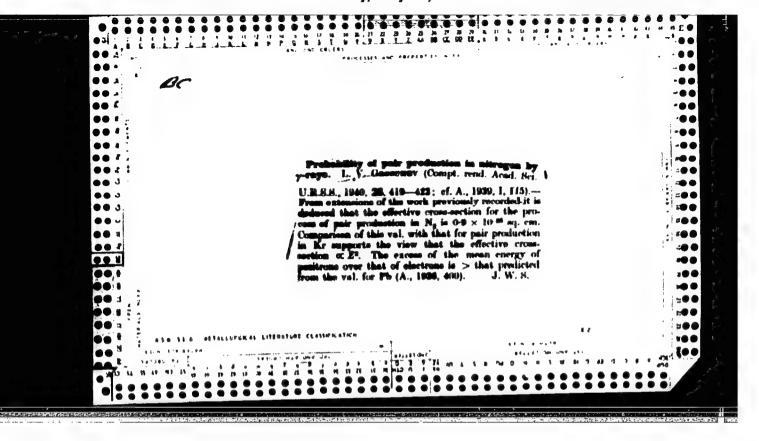


GROSHEV, L., Veksler, Vladimir Iosifovich and N. Dobrotin

"Experimental Methods in Nuclear Physics," Moscow-Leningrad, 1940

[Proc. Bol'shaya Sovetskaya Entsiklopediya, Vol. VII, 2nd ed., Moscow, 1949

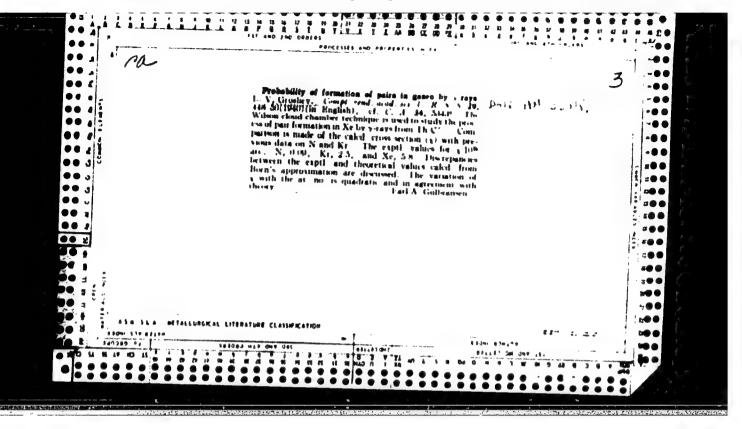


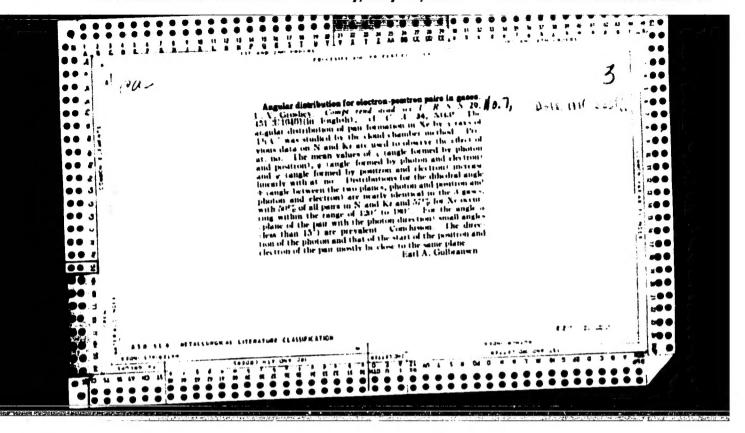


GROSHEN, L. V.,

Angular Distribution and Nuclear Impulse for Pairs in Nitrogen, Comptes Rendus de 1' Academie des Sciences de 1'U. R. S. S., 1940, Vol. 26, No. 5, pp 424-42; also in Doklady Akademii Nauk S. S. S. R., 1940, Vol. 26, No. 5, pp 432-435, (Fizicheskii Institut imeni P. N. Lebedeva Akademii Nauk S. S. S. R., Moskyn).

The angle between the direction of the photon and the direction of emission of the positron as well as the corresponding angle for the electron, has an avvalue of 23°; the angle detd. by the directions of emission of positron and electron has an avvalue of 40°. The distribution of the dihedral angles between the 2 planes detd. by photon-positron directions and by photon-electron directions is plotted but no avvalue is given. Results are calculated for 70 pairs with energies between 1350 and 1850 c. kv. The results are in fair agreement with the predictions of the Bethe-Heitler theory (C. A. 28, 7146°). The distribution of the recoil impulse of the nucleus is calculated; it is approximate the same as for Kr (G. and Frank, C. A. 32, 7811°).





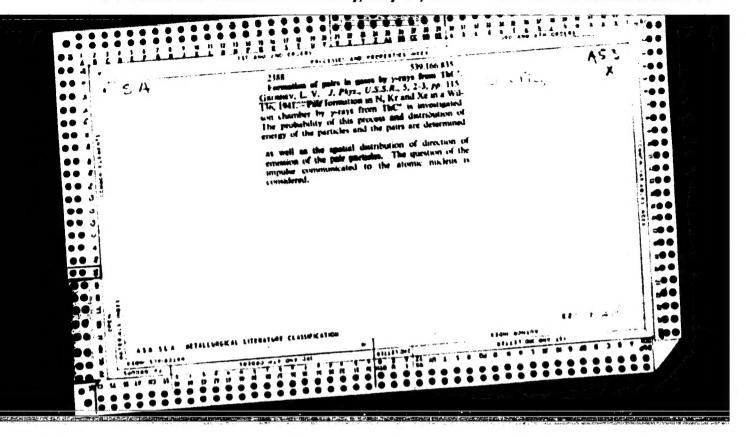
GROSHEV, L. V.

"Product of Pairs in Gases," presented to the 1940 Conference on Atoric Nuclei, from the Lebedev Institute. Determined effective cross-section in N, Kr and Ke with 2.6 New gamma quanta from ThC"; and found dependence on 2 to agree well with calculations of Jaeger and Hulme (British).

Journal of Physics, Vol. 4, No. 3, pp. 277-276, 1741 Zhar-Fil.,

"Formation of Pair Production in Gases," Nentions the use of a Wilson cloud charter. Journal of Physics, Vol. 5, No. 2-3, p. 115-136, 1941.

Zim. Fiz.



"Pair Creation in Gases from Y-Rays," Trudy Akademii Nauk S.S. S. R., Fizicheskii Institut imeni P. N. Lebedeva, 1945, Vol. 3, pp 115-180.